

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (previously presented) An inflatable device, comprising:
a substantially fluid impermeable bladder; and
a fluid controller comprising an electrically powered pump, the pump being disposed at least partially within a profile of the bladder, and the fluid controller being coupled to the inflatable bladder in a position, and in the position the fluid controller being adapted to permit air to exit the bladder through the fluid controller and to be provided to the bladder through the fluid controller.
2. (previously presented) The inflatable device of claim 1, wherein the fluid controller is constructed and arranged such that a majority of the fluid controller is positioned within the profile of the bladder.
3. (previously presented) The inflatable device of claim 2, wherein the fluid controller is constructed and arranged such that substantially all of the fluid controller is positioned within the profile of the bladder.
4. (canceled)
5. (original) The inflatable device of claim 1, wherein the fluid controller comprises a housing.

6. (previously presented) The inflatable device of claim 5, wherein the housing comprises a flange impermeably connected to the bladder.
7. (previously presented) The inflatable device of claim 1, wherein the fluid controller comprises a flange impermeably connected to the bladder.
8. (previously presented) The inflatable device of claim 7, wherein the flange comprises a fluid impermeable wall that connects to a housing of the inflatable device.
9. (previously presented) The inflatable device of claim 8, wherein the flange is in contact with the housing at an outlet of the housing.
10. (original) The inflatable device of claim 7, wherein a remainder of the fluid controller is constructed and arranged to be removable from the flange.
11. (previously presented) The inflatable device of claim 1, wherein the fluid controller comprises a first locking mechanism and an adjustment device including a second locking mechanism sized and adapted to mate with the first locking mechanism.
12. (original) The inflatable device of claim 11, wherein the adjustment device further comprises:
 - a first switch electrically connected to the pump and a power source such that the first switch may selectively energize the pump; and
 - a second switch mechanically connected to a valve of the fluid controller such that it may selectively open the valve;wherein the first switch and second switch are in fixed proximity to one another.

13. (original) The inflatable device of claim 12, wherein the adjustment device further comprises a top portion and the first switch and the second switch are positioned on the top portion.

14. (original) The inflatable device of claim 1, further comprising an adjustment device, including:

a first switch electrically connected to the pump and a power source such that the first switch may selectively energize the pump; and

a second switch electrically connected to a power source and electro-mechanically connected to a valve of the fluid controller such that it may selectively open the valve.

15. (original) The inflatable device of claim 14, wherein the electro-mechanical connection comprises a solenoid.

16. (original) The inflatable device of claim 1, wherein the fluid controller comprises a valve and a member connected to the valve that moves the valve between an open and a closed position.

17. (original) The inflatable device of claim 16, wherein the member is adapted to be actuated by a switch on an adjustment device.

18. (original) The inflatable device of claim 16, wherein the member is a stem.

19. (canceled)

20. (previously presented) An inflatable system, comprising:

a substantially fluid impermeable bladder; and

a fluid controller comprising:

a pump in fluid communication with the bladder through a valve and comprising a first locking mechanism; and

an adjustment device including a first switch mechanically connected to the valve and adapted to mechanically actuate the valve, and a second locking mechanism sized and adapted to mate with the first locking mechanism.

21. (previously presented) The inflatable system of claim 20, wherein the adjustment device further comprises:

a top portion;
a second switch having a first position and a second position, positioned on the top portion and electrically connected to the pump and a power source; and
wherein the first switch is positioned on the top portion.

22. (previously presented) The inflatable system of claim 20, wherein the pump is an electrically powered pump and the fluid controller is at least partly positioned within the profile of the bladder.

23. (previously presented) The inflatable system of claim 22, wherein a majority of the fluid controller is positioned within the profile of the bladder.

24. (previously presented) The inflatable system of claim 23, wherein substantially all of the fluid controller is positioned within the profile of the bladder.

25. (previously presented) The inflatable system of claim 22 wherein the bladder includes a recess sized and configured to accommodate at least a portion of the fluid controller.

26. (previously presented) The inflatable system of claim 22, wherein the fluid controller includes a housing and the housing includes a flange that connects to the bladder.

27. (previously presented) An inflatable device, comprising:
a substantially fluid impermeable bladder;
a fluid controller comprising:

an electrically powered pump, and

a self-sealing valve; and

an adjustment device, comprising:

a first switch electrically connected to the pump and an at least one power source such that the first switch may selectively energize the pump, and

a second switch electrically connected to the at least one power source and electro-mechanically connected to the self-sealing valve of the fluid controller, such that it may selectively open the self-sealing valve.

28. (previously presented) The inflatable device of claim 27, wherein the electro-mechanical connection comprises a solenoid.

29. (previously presented) The inflatable device of claim 7, wherein the flange comprises a recess.

30. (previously presented) An inflatable device, comprising:

a substantially fluid impermeable bladder; and

a fluid controller comprising an electrically powered pump;

wherein the fluid controller is fixedly connected to the bladder in a position such that the pump is located only partially within a profile of the bladder, and when in the position, the fluid controller is adapted to permit air to exit the bladder through the fluid controller and be provided to the bladder through the fluid controller.

31. (previously presented) The inflatable device of claim 30, wherein the fluid controller is constructed and arranged such that a majority of the fluid controller is positioned within the profile of the bladder.

32. (canceled)

33. (previously presented) The inflatable device of claim 30, wherein the fluid controller comprises a housing having a flange that connects to the bladder.

34-35. (canceled)

36. (previously presented) The inflatable device of claim 1, wherein a recess is formed by the fluid controller.

37. (previously presented) The inflatable device of claim 1, wherein the pump is at least partially positioned within a recess in the wall of the bladder.

38. (previously presented) The inflatable device of claim 1, wherein the pump is entirely external to the bladder.

39. (previously presented) The inflatable device of claim 1, wherein the fluid controller is permanently coupled to the bladder.

40. (previously presented) The inflatable device of claim 1, wherein the pump is externally accessible.

41. (previously presented) The inflatable device of claim 1, further comprising a flange impermeably connected to the bladder, the flange forming a recess, wherein the pump is at least partially positioned within the profile of the bladder.

42. (previously presented) The inflatable device of claim 1, wherein the fluid controller is configured to permit air to exit the bladder at a user selectable rate.

43. (previously presented) The inflatable device of claim 1, wherein the pump is at least partially external to the bladder.

44. (currently amended) ~~The inflatable device of claim 19,~~ An inflatable device, comprising:
757057.1757057.1

an inflatable bladder; and
a fluid controller including an electrically powered pump, the fluid controller being at least partially positioned within a profile of the bladder such that the exterior profile of the fluid controller and inflatable bladder in combination is essentially the same as the exterior profile of the inflatable bladder, at least a portion of the fluid controller that is positioned within the profile of the bladder being accessible from the exterior of the bladder, and the fluid controller being adapted to permit exhaustion of air from the bladder through the fluid controller; and
wherein the fluid controller is permanently connected to the bladder.

45. (currently amended) ~~The inflatable device of claim 19;~~ An inflatable device, comprising:
an inflatable bladder; and
a fluid controller including an electrically powered pump, the fluid controller being at least partially positioned within a profile of the bladder such that the exterior profile of the fluid controller and inflatable bladder in combination is essentially the same as the exterior profile of the inflatable bladder, at least a portion of the fluid controller that is positioned within the profile of the bladder being accessible from the exterior of the bladder, and the fluid controller being adapted to permit exhaustion of air from the bladder through the fluid controller; and
wherein the fluid controller comprises:
a valve, and
a user interface mechanically coupled to the valve, the user interface being adapted to permit a user to mechanically manipulate the valve.

46. (previously presented) The inflatable device of claim 45, wherein the user interface is configured to permit a user to release air from the bladder at a selectable rate.

47. (currently amended) ~~The inflatable device of claim 19;~~ An inflatable device, comprising:
an inflatable bladder; and
a fluid controller including an electrically powered pump, the fluid controller being at least partially positioned within a profile of the bladder such that the exterior profile of the fluid controller and inflatable bladder in combination is essentially the same as the exterior profile of the inflatable bladder, at least a portion of the fluid controller that is positioned within the profile

of the bladder being accessible from the exterior of the bladder, and the fluid controller being adapted to permit exhaustion of air from the bladder through the fluid controller; and
wherein the pump is at least partially accessible from the exterior of the bladder.

48. (canceled)

49. (currently amended) ~~The inflatable device of claim 19;~~ An inflatable device, comprising:
an inflatable bladder; and
a fluid controller including an electrically powered pump, the fluid controller being at least partially positioned within a profile of the bladder such that the exterior profile of the fluid controller and inflatable bladder in combination is essentially the same as the exterior profile of the inflatable bladder, at least a portion of the fluid controller that is positioned within the profile of the bladder being accessible from the exterior of the bladder, and the fluid controller being adapted to permit exhaustion of air from the bladder through the fluid controller; and
wherein the pump is at least partially accessible from the exterior of the bladder.

50. (previously presented) The inflatable device of claim 1, wherein the bladder forms a mattress.

51. (currently amended) ~~The inflatable device of claim 19;~~ An inflatable device,
comprising:
an inflatable bladder; and
a fluid controller including an electrically powered pump, the fluid controller being at least partially positioned within a profile of the bladder such that the exterior profile of the fluid controller and inflatable bladder in combination is essentially the same as the exterior profile of the inflatable bladder, at least a portion of the fluid controller that is positioned within the profile of the bladder being accessible from the exterior of the bladder, and the fluid controller being adapted to permit exhaustion of air from the bladder through the fluid controller; and
wherein the bladder forms a mattress.

52. (previously presented) The inflatable system of claim 20, wherein the bladder forms a mattress.

53. (previously presented) The inflatable device of claim 27, wherein the bladder forms a mattress.

54. (previously presented) The inflatable device of claim 30, wherein the bladder forms a mattress.

55. (previously presented) The inflatable device of claim 1, wherein the fluid controller comprises a valve through which the air exits the bladder.

56. (currently amended) ~~The inflatable device of claim 19,~~ An inflatable device, comprising:

an inflatable bladder; and

a fluid controller including an electrically powered pump, the fluid controller being at least partially positioned within a profile of the bladder such that the exterior profile of the fluid controller and inflatable bladder in combination is essentially the same as the exterior profile of the inflatable bladder, at least a portion of the fluid controller that is positioned within the profile of the bladder being accessible from the exterior of the bladder, and the fluid controller being adapted to permit exhaustion of air from the bladder through the fluid controller; and

wherein the fluid controller comprises a valve through which the air exits the bladder.

57. (previously presented) The inflatable device of claim 30, wherein the fluid controller comprises a valve through which the air exits the bladder.

58. (currently amended) ~~The inflatable device of claim 48,~~ An inflatable device, comprising:

a substantially fluid-impermeable bladder; and